



Chemist

Department: Utilities

Class Code: 6712

EEO Code: 22

FLSA: E

Effective: 25/04/2005

GENERAL STATEMENT OF DUTIES:

Under general supervision; performs work of considerable difficulty in conducting analytical tests of drinking water to determine its chemical, bacteriological and physical quality; and performs other work as required.

SPECIFIC STATEMENT OF DUTIES:

Analyzes water samples for total organic carbon, volatile organic chemicals, metal, chlorine, dissolved oxygen, conductivity, fluoride, turbidity and microbiological parameters; operates highly technical laboratory equipment including gas chromatograph, atomic absorption spectrophotometer and total organic carbon analyzer; calibrates laboratory test equipment; tests samples extracted from various points in distribution system, such as mains, tanks, pumps and outlets to discover possible sources to water contamination; maintains efficiency of laboratory relative to record keeping, equipment, methodologies, quality assurance and personnel training to meet state and EPA requirements; assists in training of laboratory technicians and plant personnel on chemical analysis procedures required for their positions; calibrates, graphs and prepares charts for spectrophotometer and chemical feed equipment; produces reports, records and analytical data as required for laboratory certification and department standards; responds to customer complaints related to water quality problems; and performs other duties as required.

REQUIRED SKILLS, KNOWLEDGE AND ABILITIES:

Considerable knowledge of the principles of chemistry as applied to the purification of water and overall water quality; of laboratory principles, procedures and equipment; of state and federal regulations pertaining to laboratory procedures and equipment; some knowledge of the operation of a water treatment facility.

Considerable skill in calibrating analytical testing equipment and chemical feed machines; in writing clear, concise technical reports; in evaluating analytical results and performing corrective actions.

MINIMUM EDUCATION AND EXPERIENCE:

Completion of the core curriculum for a bachelor's degree in chemistry, microbiology or related field and three years of experience in an analytical laboratory performing chemical analyses; or an equivalent combination of training and experience.

ADDITIONAL REQUIREMENTS:

Valid vehicle operator's license.

<p>This class specification is not intended to describe and does not necessarily list the essential job functions for a given position in a classification.</p>
